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Systems and Methods for a Navigational Device with Improved Route Calculation Capabilities

Abstract of the Disclosure

5 Systems, devices and methods are provided for an improved navigational route planning device which provides more understandable, accurate and timely route calculation capabilities. The navigational aid device with route calculation capabilities includes a processor connected to a memory. The memory includes cartographic data and a desired destination, the cartographic data including data
10 indicative of thoroughfares of a plurality of types. A display is connected to the processor and is capable of displaying the cartographic data. The device is adapted to calculate a route to navigate to the desired destination. And, the device is adapted to adjust a starting point for the route calculation to an appropriate location such that the device is on the route at a time when the route calculation is completed. The
15 device processes travel along the route, recognizes when the device has deviated from the route, and calculates a new route to navigate to the desired destination.